

Application No. 10/616,728

IN THE CLAIMS:

Please amend claims 1, 5, 9, 10 and 13 as follows:

1. (Currently Amended) A contact unit electrically connecting two connection objects using a connecting device arranged in a hole portion formed in at least one surface of an insulating member,

wherein said connecting device comprises

a contact which is pressed to engage a connection terminal of at least one of said two connection objects for electrical connection therewith;

a conductive member provided on an inner circumferential surface of said hole portion to electrically connect said contact with the other connection object; and

a resilient member which urges said contact outwardly to protrude partially from said hole portion at an open end, said resilient member being deformed due to the urging of said contact to impart a rotational force on said contact around a contact point between said contact and said connection terminal connected therewith; and

a retaining member connected with the insulating member around an said open end of said hole portion for retaining said contact therein.

2. (Original) A contact unit according to claim 1,

wherein said hole portion is a through hole which is formed so as to pass through said insulating member.

3. (Previously Presented) A contact unit according to claim 2, wherein said resilient member is arranged within said through hole, and urges a pair of contacts positioned on opposite ends thereof to partially protrude from both ends of said through hole.

4. (Previously Presented) A contact unit according to claim 1, wherein said hole portion comprises first and second holes each of which corresponds to a respective connection terminal or contact electrode provided on one of said two connection objects, each of said first and second holes containing said connecting device, respectively.

5. (Currently Amended) A contact unit according to claim 4, wherein said first and second holes are arranged in one surface of a multi-layer wiring board opposite one of said two

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connection objects, and a conductive members of connecting devices are arranged in said first and second holes, respectively, and connection terminals or contact electrodes of the other of said two connection objects, or conductive members of another hole portion provided independently at a remote location from said hole portion are connected by wiring paths formed in each layer of said multi-layer wiring board.

6. Canceled.

7. (Original) A contact unit according to claim 1, wherein said contact is formed with a cavity for receiving said connection terminal of said connection object in an end surface thereof at which said contact is in contact with said connection terminal, and at least one projection is provided on a rim of said cavity.

8. (Original) A contact unit according to claim 7, wherein an inside surface of said cavity is formed as an inclined surface inclined inwards from a rim thereof.

9. (Currently Amended) A contact unit according to claim 8, electrically connecting two connection objects using a connecting device arranged in a hole portion formed in at least one surface of an insulating member,

wherein said connecting device comprises

a contact including a cavity in an end surface thereof for receiving and contacting a connection terminal of at least one of said two connection objects for electrical connection therewith, said cavity having a surface inclined inwardly from a rim thereof, at least one projection being provided on said cavity rim, wherein said rim is being formed with a guide surface whose slope is shallower than said inclined surface;

a conductive member provided on an inner circumferential surface of said hole portion to electrically connect said contact with the other connection object; and

a resilient member which urges said contact outwardly to protrude partially from said hole portion at an open end, said resilient member being deformed due to the urging of said contact to impart a rotational force on said contact around a contact point between said contact and said connection terminal connected therewith; and

a retaining member connected with the insulating member around said open end of said hole portion for retaining said contact therein.

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10. (Currently Amended) A socket for electrical parts comprising:

a mounting portion for detachably mounting an electrical part provided with a plurality of connection terminals arranged on a surface thereof; and

a contact unit that electrically connects the connection terminals of said electrical part mounted on said mounting portion and contact electrodes of a circuit board facing said electrical part; using a connecting device housed in a hole portion formed in at least one surface of an insulating member, wherein said connecting device comprises;

a contact which is pressed to engage at least one of the connection terminals of said electrical part for electrical connection therewith;

a conductive member provided on an inner circumferential surface of said hole portion to electrically connect said contact with said circuit board; and

a resilient member which urges said contact outwardly to protrude partially from said hole portion at an open end, said resilient member being deformed due to the urging of the contact to impart a rotational force on said contact around a contact point between said contact and said connection terminal engaged therewith; and

a retaining member connected with said insulated part insulating member around an said open end of said hole portions portion for retaining said contact therein.

11. (Previously Presented) A socket for electrical parts according to claim 10, wherein said contact is formed with a cavity for receiving the connection terminal of said connection object, in an end surface thereof at which said contact is in contact with said connection terminal, and at least one projection is provided on a rim of said cavity.

12. (Previously Presented) A socket for electrical parts according to claim 11, wherein an inner surface of said cavity is formed as an inclined surface inclined inwards from a rim thereof,

13. (Currently Amended) A socket for electrical parts according to claim 12, comprising:

a mounting portion for detachably mounting an electrical part provided with a plurality of connection terminals arranged on a surface thereof; and

a contact unit that electrically connects the connection terminals of said electrical part mounted on said mounting portion and contact electrodes of a circuit board facing said electrical part, using a connecting device housed in a hole portion formed in at least one surface of an insulating member, wherein said connecting device comprises;

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a contact including a cavity in an end surface thereof for receiving and contacting at least one of the connection terminals of said electrical part for electrical connection therewith, said cavity having a surface inclined inwardly from a rim thereof, at least one projection being provided on said cavity rim, wherein said rim is being formed with a guide surface whose slope is shallower than said inclined surface;

a conductive member provided on an inner circumferential surface of said hole portion to electrically connect said contact with said circuit board; and

a resilient member which urges said contact outwardly to protrude it partially from said hole portion at an open end, said resilient member being deformed due to the urging of the contact to impart a rotational force on said contact around a contact point between said contact and said connection terminal engaged therewith; and

a retaining member connected with said insulating member around said open end of said hole portion for retaining said contact therein.

14. (Previously Presented) A contact unit electrically connecting two connection objects using a connecting device arranged in a hole portion formed in at least one surface of an insulating member, wherein said connecting device comprises

a contact which is pressed to engage a connection terminal of at least one of said connection objects for electrical connection therewith;

a conductive member provided on an inner circumferential surface of said hole portion to electrically connect said contact with the other connection object; and

a resilient member for urging said contact outwardly to partially protrude from said hole portion, said resilient member being deformed due to the urging of said contact,

said contact being formed with a cavity for receiving said connection terminal of said connection object in an end surface thereof where said contact engages said connection terminal and at least one projection is provided on a rim of said cavity;

an inner surface of said cavity being formed as a surface which is inclined inwardly from a rim thereof; and

said rim being formed with a guide surface whose slope is shallower than said inclined surface.

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